

Electronic Guitar GR-100 OWNER'S MANUAL





SPECIAL FEATURES

- The GR-100 can produce, by means of a unique electronic circuit, an entirely new electronic sound effect previously not possible with earlier electric guitar models.
- Playing the guitar is fun thanks to the rich tone quality made by the Hexa VCF which uses a VCF for each string.
- A wide range of electronic sounds are possible from the filter modulation, touch vibrato and chorus effect.

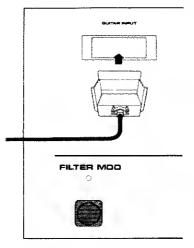
< Before Playing >

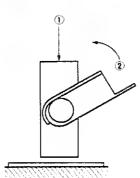
 Plug in the power cable. Connect the guitar, and then turn the power switch ON.

- •GR-100 is to be used with a guitar controller (G-202, 303, 505, 808). GS-500 should not be used.
- When not in use for any lengthy period of time, please unplug the power cable.
- Do not place or drop any heavy object on either the power cable or connection cables as they are likely to be damaged.
- Neon lights, fluorescence lights, etc. near the main unit, the guitar and the amplifier may cause noises. If so, please change your position.
- Please avoid hot, humid or dusty places as they may cause breakdowns.
- •Use good synthetic detergent to clean the panel section.

GUITAR CONNECTION

• Connection with G-202, 303, 505, or 808





AMPLIFIER CONNECTIONS

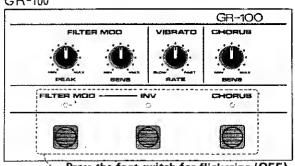
 One Amplifier Two Amplifier (Chorus, Vibrato ON) Normal guitar sound Chorus/Vibrate sound Electronic sound Every sound produced To AUX Audio Guitar amplifier amplifier GUITAR CHORUS MIX /E.G QUTPUT OUTPUT Two Amplifiers Three Amplifiers Normal guitar Chorus/Vibrate Normal guitar Elactronic sound Normal guiter Chorus/Vibrate sound sound sound sound sound Electronic sound GUITAR CHORUS CHORUS MIX/E.G MIX/E.G CUITAR OUTRUT-QUIPUT-

*To turn the GR-100's source switch on for guitar amplification, but the guitar and guitar amplifier volume at "O" and then switch to ON.

SOUND CONTROLS FROM THE GUITAR * The lower line knob switch is on the guitar.

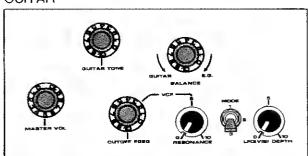
Basic Setting

GR-100

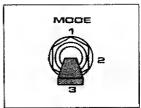


- Press the foot switch for flickering (OFF).

GUITAR



- ■Mode Selector *With the mode selector for models G-303 and 808, DIST = 1, DIST/VC0 = 2 and VC0 = 3. ■Balance Control
- When the mode selector is set at 1, a normal sound is produced when the guitar is played.
- When the mode selector is set at 2, a stacatto electronic sound is produced when the guitar is played.
- ■When the mode selector is set at 3, a sustained electronic sound is produced.

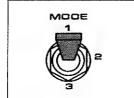


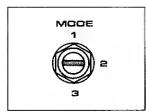
- Balance control

The electronic sound is mixed by turning the balance control to the right (clockwise). At position 10, pnly electronic sound is produced. At position 1, only normal guitar sound is produced at the same situation as when the mode selector is set at 1.3.

as when the mode selector is set at 1,3 "With the mode selector set at position 1 (DIST), the effect of the balance control is neutralized and only normal guitar sound is produced."







* THE CUT-OFF FREQUENCY AND RESONANCE OF THE ELECTRONIC SOUND TONE CAN BE CONTROLLED.

■Cut-off Frequency

By turning the control from position 10 to O, high frequency ranges are progressively removed. While the sound quality becomes softer, the sound volume also diminishes.

Let's try to create some different kinds of sounds.

While setting the resonance at 0, 5, and 10 in sequence, gradually turn the cut-off frequency control from 0 to 10 at each position to verify changes in sound quality,

■ Resonance

By turning the control from position 0 to 10, the wave range determined by the cutoff frequency knob is emphasized and made to be a characteristic quality of the sound emitted.

By connecting the foot pedal FV-20 (an optional accessory) to the VCF pedel jack on the A panel, the cut-off frequency can be controlled by using the pedal.

1. Resonanca "0"



natural electronic sound is produced due to the lack of resonance effect.

2. Resonance "5"

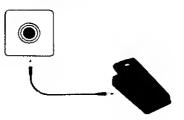


When the cut-off frequency is at a level of position 0-2, the sound resembles that of wind instru-ments but by raising the cut-off frequency the sound becomes one like a lead guitar used for hard rock music. Picking harmonics are also easy to produce.

3. Rasonance "10"



The feedback mechanism is easily produced by effective use of the cut off frequency control,



The sound can be controlled for the GR-100 by 6 VCFs (Hexa VCF) which use a VCF for each string.

For example, when the cut-off frequency is closed, the sixth string is open and the sound volume balance has a high fret on the first string, sound separation between each string is made. This is an effect which formarly could not be produced by electric quitars.

* Feedback mechanism

- Set the amplifier volume on loud.
- Set the resonance to 10.
- 3 Adjust the cut-off frequency to a level of sound which permits feedback.
- When the guitar is played, each sound will produce a long, sustained feedback.

■ Filter Modulation

It is possible to give the wah-wah effect to 3 Turn the PEAK knob for effect control, the electronic sound independently of Cut-off Frequency and Resonance.

The wah-wah effect can be controlled by picking the guitar strongly or softly.



Turn the foot switch ON (indicator) will be on).





2 Turn the SENS knob for control,



Sens The sensitivity of the wahwah effect can be adjusted in response to the strength of the picking with this control. By turning it to the right (clockwise), even soft picking can be used for the wah-wah effect. By turning it to the left (counterclockwise), if the picking is not very strong the effect will not be produced.

Peak The depth of the wah-wah effect can be adjusted with this, By turning the control to the right (clockwise), the wah-wah effect is made deeper. By turning the control to the left (counter-clockwise), the effect is muted.

■ Filter Modulation Inverter



With the foot switch ON, the wah wah effect changes to an opposite sound quality.



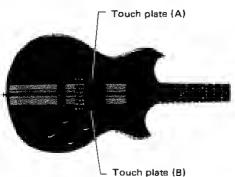
■Touch Vibrato

When playing the guitar, the GR-100 will naturally produce a vibrato effect. But an electronic vibrato effect can also be made,

 By turning the Vibrato Depth to the right (clockwise) the depth of effect is controlled.



2 While pressing a string with your left hand, feel the Touch Plate (A) with your right.



S By turning the vibrato rate control to the right (clockwise), the speed of the effect is adjusted.



Vibrato indicator

When the vibrato effect is ON, this indicates the speed of the vibrato effect.

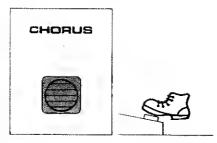
- *No effect is produced if the <u>Vibrato</u> Depth control is on 0.
- **★About the Touch Plate**
- The Vibrato's ON/OFF Control
- ON/OFF for the continuous vibrato effect

When the touch plate (A) is touched, the vibrato effect is turned ON. When the touch plate (B) is touched, the effect is turned OFF.

• Turning the vibrato effect ON and OFF at once during a performance When the direct touch plate (B) is touched, the vibrato effect is turned ON. It is only ON while the plate is touched. When your hand is removed from contact with the plate, the effect is turned OFF.

■ Chorus

• Turn the foot switch ON (indicator will be on.)



2 Turn the SENSE knob for effect control.



Chorus/Vibrato

When the chorus effect is ON, if the vibrato effect is then turned on, it automatically cancels the chorus effect and only the vibrato effect occurs. When the vibrato effect is then thurned OFF, the chorus effect is again activated.

*It is more effective to use a stereo connection with more than two amplifiers. (Consult the "Amplifier connections",)

MAIN SPECIFICATIONS

Electronic Guitar Control Switch and LED Filter Modulation

Peak Sense Vibrato

Rate 0.7 - 8 Hz (LED)

Chorus Sens

Foot Switch (LED)

Filter modulation (ON/OFF) Filter modulation inverter (NOR/INV) Chorus (ON/OFF) Connection Terminal IN & OUT ports

Input: 24 pin connector Output: guitar, mix, chorus

REMOTE

VCF pedal (FV-20)

Electric Source Switch

AC 100V 50Hz/60Hz

Power Consumption

9W

External Dimensions

 $300(W) \times 250(D) \times 93(H)$ mm

Weight Attachment

3.1 kg

24 pin connect

24 pin connecting cord Pin jack cord x 1

OPTIONS



Foot volume control FV-20

Carring case SC-1

